Application No.: 10/708,198

Docket No.: 10767-US-PA

## **AMENDMENT**

Please amend the application as indicated hereafter.

## To the Claims:

Please amend the claims according to the following listing of claims and substitute the same for all prior versions and listings of claims in the application.

Claim 1. (currently amended) A driving circuit of used for a current-driven active matrix organic light emitting diode (AMOLED), comprising:

an AMOLED a pixel connected to a current source, the current source being used to charge/discharge charge or discharge a capacitor connected to a gate of a driving thin film transistor, and a gray scale of the AMOLED pixel is determined by a magnitude of a current provided by the current source; and

a pre-charge switch <u>directly</u> connected to the gate of the driving thin film transistor and a driving power source, for controlling the driving power source to pre-charge the capacitor before the current source <del>charges/discharges</del> charges or <u>discharges</u> the capacitor, wherein the <u>AMOLED</u> pixel <del>further</del> comprises:

an organic light emitting diode (OLED) having an anode and a cathode, the cathode being connected to a first power source;

a first switch with one end connected to the anode of the OLED and another end connected to a drain of the driving thin film transistor;

a second switch with one end connected to the current source and another end connected to the drain of the driving thin film transistor; and

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a third switch with one end connected to the drain of the driving thin film transistor

and another end connected to the gate of the driving thin film transistor and one end of the

capacitor, the other end of the capacitor being connected to a second power source.

Claims 2-6. (cancelled)

Claim 7. (Previously presented) The driving circuit of claim 1, wherein the first,

the second, the third switches, the driving thin film transistor, and the pre-charge switch

are P-type thin film transistors.

Claim 8. (withdrawn) The driving circuit of claim 1, wherein the first, the second,

the third switches and the pre-charge switch are N-type thin film transistors.

Claim 9. (Previously presented) The driving circuit of claim 1, wherein a

negative power source is used as the driving power source.

Claim 10. (Previously presented) The driving circuit of claim 1, wherein a

pre-charged voltage level across the capacitor is substantially equal to a threshold voltage

of the thin film transistor.

Claim 11. (original) The driving circuit of claim 1, wherein the driving power

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source comprises two different voltage levels.

Claim 12. (currently amended) A method for driving a current-driven active

matrix organic light emitting diode (AMOLED) pixel, wherein a pre-charge switch is

connected between a gate of a diving thin film transistor of an AMOLED pixel and a

driving power source, and disposed between a driving thin film transistor of the

AMOLED pixel and a driving power source and directly connected to the gate of the

driving thin film transistor, a capacitor is directly connected to the gate of the driving thin

film transistor of the AMOLED pixel, the method comprising the steps of:

directly pre-charging the capacitor through the pre-charge switch by using the

driving power source;

adjusting a gray-scale charging voltage of the capacitor by charging or

discharging the capacitor using [[the]] a current source; and

stopping charging/discharging charging or discharging the capacitor through the

current source to control the AMOLED pixel to enter an illumination stage.

Claim 13. (Previously presented) The method of claim 12, wherein the capacitor

is pre-charged to a voltage that is substantially equal to a threshold voltage of the thin film

transistor.

Claim 14. (original) The method of claim 12, wherein the driving power source

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comprises two different voltage levels.

Claim 15. (Previously presented) The driving circuit of claim 1, wherein the first power source is negative polarity.

Claim 16. (Previously presented) The driving circuit of claim 1, wherein the second power source is positive polarity.